

PATENT ABSTRACTS OF JAPAN

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(54) SOLID-STATE IMAGE PICKUP DEVICE

(57)Abstract:

PURPOSE: To attain a high sensitivity by providing a switch element for connecting plural lines of photoelectric transfer elements to one of horizontal signal lines in a horizontal reading MOS type solid-state image pickup device, taking out a signal from the common horizontal signal line and making the number of the horizontal signal lines below the number of lines of the photoelectric transfer elements.

CONSTITUTION: Photoelectric transfer elements of the same color of two lines are connected to one horizontal signal line to make the number of the horizontal signal lines the number of the lines and increase an aperture area of the photoelectric transfer element 3. There are two switch elements between one photoelectric transfer element and the horizontal signal line, a wiring between the switch elements 23 and 25 is long and this part is superimposed on a horizontal gate line 7 and disposed, so that there is not deterioration of the aperture are thereby. Thereby, a color separation by

a sampling and a line sequential processing by a 1H delay line are not required, a scale of an entire of a camera and a consumed power are lowered, a color noise and a return distortion are reduced and a resolution and the sensitivity can be raised.

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